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1. This action is in response to the amendment filed on 10/22/10.
2. Claims 1-27 have been previously canceled.
3. Claims 28, 41, 46, 55, 57 have been amended.
4. Claims 30, 33, 49, 51, and 56 have been canceled. (See the Examiner Amendment)
5. Claims 28-29, 31-32, 34-48, 50, and 52-55, and 57-60 have been allowed.

### EXAMINER'S AMENDMENT

6. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Ms. Donna Jo Coningsby (Reg. No. 41,684) on 11/18/10.

The application has been amended as follows:

List of the claims:

28. (Currently amended) A computer system comprising:
- a first source file repository storing a plurality of active source files belonging to of a component, the active source files having been activated upon transfer to the first source file repository; and from a second source file repository, the second source file repository storing a plurality of inactive source files of the component and not yet activated; and
- a central compilation service communicatively coupled with the first source file repository that, upon receiving an activation request for at least one inactive source file of the component, compiles the component using the at least one

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inactive source file and, in case the compilation is successfully completed, activates the at least one inactive source file, including initiates a transfer of the at least one inactive source file from the second source file repository to the plurality of active source files stored in the first source file repository, wherein the transfer of the at least one inactive source file is in response to replacing at least one corresponding active source file with the at least one inactive source file in case the corresponding active source file is outdated.

29. (Previously Presented) The computer system of claim 28, wherein the transfer comprises adding the at least one inactive source file to the plurality of active source files if the inactive source file has no corresponding active source file.

30. (Canceled).

31. (Previously Presented) The computer system of claim 28, wherein the transfer comprises replacing at least one corresponding active source file with the at least one inactive source file if the active source file is outdated.

32. (Previously Presented) The computer system of claim 28, further comprising a runtime archive storage to store a compilation result of the component in case the compilation of the component is successfully completed.

33. (Canceled).

34. (Previously Presented) The computer system of claim 28, wherein the central compilation service notifies a changer of the inactive source file in case the compilation of the component fails.

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35. (Previously Presented) The computer system of claim 28, wherein the central compilation service assigns a component status to the component depending on the result of the compilation, the component status being ready in case the compilation of the component is successfully completed.

36. (Previously Presented) The computer system of claim 28, wherein the central compilation service assigns a component status to the component depending on the result of the compilation, the component status being broken in case the compilation of the component fails.

37. (Previously Presented) The computer system of claim 28, wherein the central compilation service assigns a component status of dirty to a further component that depends on the component in case the compilation of the component is successfully completed.

38. (Previously Presented) The computer system of claim 28, wherein the central compilation service performs an incremental build when compiling the component if the component has a dependency on a further component, the incremental build using a component dependency evaluator to determine the dependency and to provide a previously obtained compilation result of the further component, and to provide the at least one inactive source file and the plurality of active source files of the component.

39. (Previously Presented) The computer system of claim 28, wherein the central compilation service performs a parallel build when compiling the component by evaluating dependencies of the component on further components and compiling the component and at least one of the further components in parallel based on the dependencies.

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40. (Previously Presented) The computer system of claim 39, wherein the parallel build is performed by a cluster of build computers.

41. (Currently amended) An article of manufacture comprising instructions ~~that when~~ loaded into a memory of a computer system and executed by at least one processor of the computer system, ~~cause~~ causing the at least one processor to:

store a plurality of active source files of a component in a first source file repository, the active source files having been activated upon transfer to the first source file repository from a second source file repository, the second source file repository storing a plurality of inactive source files of the component and not yet activated;

receive an activation request for at least one inactive source file of the component, the inactive source file having been modified and subject to being activated; compile the component using the at least one inactive source file and the plurality of active source files, the active source files having been previously activated; and

activate the at least one inactive source file, including initiate a transfer of the at least one inactive source file from the second source file repository to [[a]] the plurality of active source files stored in the first source file repository[[,]] in case the compilation is successfully completed, wherein the transfer of the at least one inactive source file is in response to replacing at least one corresponding active source file with the at least one inactive source file in case the corresponding active source file is outdated.

42. (Currently amended) The article of claim 41 further comprising instructions ~~that when~~ loaded into the memory of the computer system and executed by the at least one processor of the computer system, ~~cause~~ causing the at least one processor to notify a changer of the inactive source file, in case the compilation fails.

43. (Currently amended) The article of claim 41, wherein the instructions that cause the at least one processor to compile the component comprise instructions ~~that, when~~ loaded into the memory of the computer system and executed by the one or more processors, causing ~~cause~~ the at least one processor to perform the compilation as an incremental build, the component having a dependency on a further component, the incremental build using a component dependency evaluator to determine the dependency and to provide a previously obtained compilation result of the further component, and to provide the at least one inactive source file and the plurality active source files of the component.

44. (Currently amended) The article of claim 41, wherein the instructions that cause the at least one processor to compile the component comprise instructions ~~that, when~~ loaded into the memory of the computer system and executed by the one or more processors, causing ~~cause~~ the at least one processor to perform the compilation as a parallel build by evaluating dependencies of the component on further components and compiling the component and at least one of the further components in parallel based on the dependencies.

45. (Previously Presented) The article of claim 44, wherein the parallel build is performed by a cluster of build computers.

46. (Currently amended) A source file activation method comprising:  
storing a plurality of active source files of a component in a first source file repository, the active source files having been activated upon transfer to the first source file repository from a second source file repository, the second source file repository storing a plurality of inactive source files of the component and not yet activated;

receiving at a central compilation service an activation request for at least one inactive source file of a component, the inactive source file having been modified and subject to being activated;

compiling the component using the at least one inactive source file and the plurality of active source files, the active source files having been previously activated; and

activating the at least one inactive source file, including initiating a transfer of the at least one inactive source file from the second source file repository to [[a]] the plurality of active source files stored in the first source file repository[[,]] in case the compilation is successfully completed, wherein the transfer of the at least one inactive source file is in response to replacing at least one corresponding active source file with the at least one inactive source file in case the corresponding active source file is outdated.

47. (Previously Presented) The method of claim 46 further comprising notifying a changer of the inactive source file, in case the compilation fails.

48. (Previously Presented) The method of claim 46, wherein the transfer of the at least one inactive source file comprises adding the at least one inactive source file to the plurality of active source files in case the plurality has no corresponding active source file.

49. (Canceled)

50. (Previously Presented) The method of claim 46, further comprising storing a compilation result of the component in a runtime archive storage in case the compilation of the component is successfully completed.

51. (Canceled)

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52. (Previously Presented) The method of claim 46, further comprising: assigning a component status to the component depending on the result of the compilation, the component status being selected from the group of:

ready in case the compilation of the component is successfully completed, and broken in case the compilation of the component fails; and

assigning a component status of dirty to a further component in case the further component depends on the component and the compilation of the component is successfully completed.

53. (Previously Presented) The method of claim 46, wherein the compilation is performed as an incremental build, the component having a dependency on a further component, the incremental build using a component dependency evaluator to determine the dependency and to provide a previously obtained compilation result of the further component, and to provide the at least one inactive source file and the plurality active source files of the component.

54. (Previously Presented) The method of 46, wherein the compilation is performed as a parallel build by evaluating dependencies of the component on further components and compiling the component and at least one of the further components in parallel based on the dependencies.

55. (Currently amended) A method for validating software comprising:

retrieving a source file of a ~~component~~ referencing a referenced component from a source file repository of a source control system with a local file system;

obtaining a compilation result of the referenced component from a runtime archive storage with the local file system;

receiving a modification of the source file with an integrated development environment;

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transferring the source file to a local build tool within the integrated development environment upon having received the modification;

retrieving the compilation result from the local file system with the local build tool;

locally compiling the component that includes the modified source file by using the compilation result of the referenced component resulting in a new compilation result of the component with the local build tool;

storing the new compilation result in the local file system;

checking in the modified source file into the source file repository, the modified source file becoming an inactive source file of the source file repository;

launching an activation request with regards to the inactive source file directed to a central compilation service; ~~and~~

loading the inactive source file and corresponding active source files of the component from the source file repository with the central compilation service;

retrieving the compilation result of the referenced component from the runtime archive storage;

centrally compiling the component with the central compilation service;

and

triggering the activation of the successfully compiled inactive source file in the source file repository in case of successful central compilation, including transferring the inactive source file to the active source files of the component in the source file repository.

56. (Canceled) .

57. (Currently amended) The method of claim [[56]] 55 further comprising the integrated development environment deploying the new compilation result to a local runtime for test purposes prior to the checking in step.



58. (Currently amended) The method of claim ~~[[56]]~~ 55 further comprising the central compilation service making available the result of the central compilation in the runtime archive storage.

59. (Currently amended) The method of claim ~~[[56]]~~ 55 further comprising the central compilation service storing an error result in case an error occurs during the central compilation, and making available the error result to a changer of the inactive source file causing the error.

60. (Previously Presented) A local development computer configured to execute retrieving, obtaining, transferring, retrieving compilation result, locally compiling, storing, deploying and launching of the method according to claim 55.

#### ***REASON FOR ALLOWANCE***

7. The following is an examiner's statement of reason for allowance:  
The cited prior art taken alone or in combination fail to teach, in combination with the other claimed limitations, a computer system comprising activates the at least one inactive source file, including initiates a transfer of the at least one inactive source file from the second source file repository to the plurality of active source files stored in the first source file repository, wherein the transfer of the at least one inactive source file is in response to replacing at least one corresponding active source file with the at least one inactive source file in case the corresponding active source file is outdated, as recited in the independent claims 28, 41, and 46.

The cited prior art taken alone or in combination fail to teach, in combination with the other claimed limitations, a method for retrieving the compilation result of the

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referenced component from the runtime archive storage; centrally compiling the component with the central compilation service; and triggering the activation of the successfully compiled inactive source file in the source file repository in case of successful central compilation, including transferring the inactive source file to the active source files of the component in the source file repository, as recited in the independent claim 55.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chameli Das whose telephone number is 571-272-3696.

The examiner can normally be reached on Monday-Thursday from 7:00 A.M. to 3:30 P.M and 7:30 P.M – 9:30 P.M (E.T).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor Tuan Dam can be reached at 571-272-3695. The fax number for this group is (571) 273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at (866) 217-9197 (toll-free). If you would

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like assistance from a USPTO Customer Service Representative or access to the automated information system, call (800) 786-9199 (in the USA or Canada) or (571) 272-1000.

/CHAMELI C. DAS/

Primary Examiner, Art Unit 2192

Dated: 11/20/10